

INDEX TO VOLUME IV

New names, and the final members of new combinations, are in **bold face type**

Abies, 91, 94, 145, 146, 184, 185, 190, 261; *balsamea*, 145, 149, 176, 177, 185, 187, 189, 192, 193; *canadensis*, 184; *concolor*, 145; *Fraseri*, 177; *grandis*, 94, 97, 145, 146; *lasiocarpa*, 58, 65, 145, 146; *magnifica*, 145; *nobilis*, 145, 146; *pectinata*, 177

Acer Negundo, 266; *rubrum*, 328

Achlya, 320-322, 326; *americana*, 319; 320; *DeBaryana*, 319, 320, 323, 324; *decorata*, 325; *glomerata*, 325, 326; *polyandra*, 319, 320, 323, 324; *prolifera*, 319, 320, 323, 324; *racemosa*, 325, 326; *racemosa spinosa*, 325; *racemosa stelligera*, 325; *spinosa*, 326

Achyla DeBaryana Humphrey and the *prolifera* group, 319

Achlya glomerata sp. nov., 325

Acolium, 152

Actaea alba, 9; *perennans*, 9

Adoxa, 20; *Moschatellina*, 20, 32

Aecidium, 13, 41, 195; *abundans*, 28; *aurellum*, 59; *elatimum*, 58; *monocum*, 59-61; *Polemonii*, 29; *sclerothecioides*, 20, 59

Aesculus glabra, 11, 12, 52, 53

Agaricaceae of the Pacific Coast, The—I, 205; II, 231; III, 294

Agaricaceae of tropical North America, The—V, 72

Agarics, New combinations for tropical, 331

Agaricum, 273

Agaricus, 230, 294; ***Abramsii***, 298; *alneus*, 213; *arenicola*, 81; *atrococuleus*, 214; ***bivelatoides***, 297; *bivelatus*, 296, 297; *bulbosus*, 295; *californicus*, 294; *campestris*, 239, 294, 296, 299; *campestris silvicola*, 295; *cerodes*, 81; ***comptuloides***, 297; *comptulus*, 298; *connatus*, 216; *coprinoceps*, 81; ***crocodilinus***, 300; *diminutivus*, 298; *euthugrammus*, 76; *flammans*, 261; ***flavitingens***, 298; *haemorrhoidearius*, 295; *Herbarum*, 244; ***Hillii***, 298; ***honden-sis***, 296; *limonellus*, 261; *liratus*, 248; ***McMurphyi***, 299; *multifidus*, 213; *oinodes*, 76; *papularis*, 80; *Pattersoae*, 296; *pectinatus*, 76; *pediades*, 76; *phalloides*, 240; *placomycetes*, 295; *porrigens*, 215; *radiatus*, 213; *semiorbicularis*, 76; *silvaticus*, 295; *silvicola*, 295; *soltarius*, 240; *subnitens*, 297; ***subrufescens***, 299

Agrimonina, 192; *gryposepala*, 191

Agropyron repens, 39; *tenerum*, 18, 31, 39

Agrostis alba, 18, 31; *hyemalis*, 9

Alectoria, 152; *loxensis*, 153; *loxensis atroalbicans*, 155

Aleuria umbrina, 221

Aleuria, Artificial cultures of *Asco-bolus* and, 218

Alopecurus, 180; *pratensis*, 179, 192

Alsinia, 145

Althaea rosea, 18

Amanita, 3, 231, 239; *bivolvata*, 241; *calyptata*, 241; *calyptrotaoides*, 241; *calyptroderma*, 241; ***mexicana***, 332; *muscaria*, 239; *orecrea*, 240; ***pantherinoides***, 262; *phalloides*, 225; *praegemmata*, 262; *rubescens*, 243; ***umbrinidisa***, 262; *virosa*, 242

Amanitopsis, 3, 231, 239; *adnata*, 243; *velosa*, 239; *volvata*, 239

Ambrosia psilostachya, 23; *trifida*, 11, 22

Amelanchier, 25, 26, 56, 57, 62; *cana-densis*, 63; *erecta*, 24-26, 32, 53, 56, 57, 62-64; *vulgaris*, 25, 32, 57, 61-65

American mycological literature, Index to, 160, 227, 285, 333

Amoeba, 322

Amorpha fruticosa, 10, 12; *nana*, 10, 11, 13

Anaptychia, 126

Andropogon, 17, 190, 200; *furcatus*, 17, 31, 200, 204; *glomeratus*, 200; *scoparius*, 9, 17, 31, 200; *virginicus*, 17, 31, 200, 204

Anemonella thalictroides, 9

Anthoxanthum odoratum, 11

Anthurus borealis, 167

Apios Apios, 10; *tuberosa*, 12

Aplanes, 322

Apocynum cannabinum, 9-13, 28

Aquilegia canadensis, 9

Arabis, 59-61, 65; *Drummondii*, 60; *Holboellii*, 10, 11, 20; *retrofracta*, 61

Aragallus Lamberti, 23, 32

Arenaria lateriflora, 186, 187, 193

INDEX TO VOLUME IV

New names, and the final members of new combinations, are in **bold face type**

Abies, 91, 94, 145, 146, 184, 185, 190, 261; *balsamea*, 145, 149, 176, 177, 185, 187, 189, 192, 193; *canadensis*, 184; *concolor*, 145; *Fraseri*, 177; *grandis*, 94, 97, 145, 146; *lasiocarpa*, 58, 65, 145, 146; *magnifica*, 145; *nobilis*, 145, 146; *pectinata*, 177

Acer Negundo, 266; *rubrum*, 328

Achlya, 320-322, 326; *americana*, 319; 320; *DeBaryana*, 319, 320, 323, 324; *decorata*, 325; *glomerata*, 325, 326; *polyandra*, 319, 320, 323, 324; *prolifera*, 319, 320, 323, 324; *racemosa*, 325, 326; *racemosa spinosa*, 325; *racemosa stelligera*, 325; *spinosa*, 326

Achyla DeBaryana Humphrey and the *prolifera* group, 319

Achlya glomerata sp. nov., 325

Acolium, 152

Actaea alba, 9; *perennans*, 9

Adoxa, 20; *Moschatellina*, 20, 32

Aecidium, 13, 41, 195; *abundans*, 28; *aurellum*, 59; *elatimum*, 58; *monocum*, 59-61; *Polemonii*, 29; *sclerothecioides*, 20, 59

Aesculus glabra, 11, 12, 52, 53

Agaricaceae of the Pacific Coast, The—I, 205; II, 231; III, 294

Agaricaceae of tropical North America, The—V, 72

Agarics, New combinations for tropical, 331

Agaricum, 273

Agaricus, 230, 294; ***Abramsii***, 298; *alneus*, 213; *arenicola*, 81; *atrococuleus*, 214; ***bivelatoides***, 297; *bivelatus*, 296, 297; *bulbosus*, 295; *californicus*, 294; *campestris*, 239, 294, 296, 299; *campestris silvicola*, 295; *cerodes*, 81; ***comptuloides***, 297; *comptulus*, 298; *connatus*, 216; *coprinoceps*, 81; ***crocodilinus***, 300; *diminutivus*, 298; *euthugrammus*, 76; *flammans*, 261; ***flavitingens***, 298; *haemorrhoidearius*, 295; *Herbarum*, 244; ***Hillii***, 298; ***honden-sis***, 296; *limonellus*, 261; *liratus*, 248; ***McMurphyi***, 299; *multifidus*, 213; *oinodes*, 76; *papularis*, 80; *Pattersoae*, 296; *pectinatus*, 76; *pediades*, 76; *phalloides*, 240; *placomycetes*, 295; *porrigens*, 215; *radiatus*, 213; *semiorbicularis*, 76; *silvaticus*, 295; *silvicola*, 295; *soltarius*, 240; *subnitens*, 297; ***subrufescens***, 299

Agrimonina, 192; *gryposepala*, 191

Agropyron repens, 39; *tenerum*, 18, 31, 39

Agrostis alba, 18, 31; *hyemalis*, 9

Alectoria, 152; *loxensis*, 153; *loxensis atroalbicans*, 155

Aleuria umbrina, 221

Aleuria, Artificial cultures of *Asco-bolus* and, 218

Alopecurus, 180; *pratensis*, 179, 192

Alsine, 145

Althaea rosea, 18

Amanita, 3, 231, 239; *bivolvata*, 241; *calyptata*, 241; *calyptrotaoides*, 241; *calyptroderma*, 241; ***mexicana***, 332; *muscaria*, 239; *orecrea*, 240; ***pantherinoides***, 262; *phalloides*, 225; *praegemmata*, 262; *rubescens*, 243; ***umbrinidisa***, 262; *virosa*, 242

Amanitopsis, 3, 231, 239; *adnata*, 243; *velosa*, 239; *volvata*, 239

Ambrosia psilostachya, 23; *trifida*, 11, 22

Amelanchier, 25, 26, 56, 57, 62; *cana-densis*, 63; *erecta*, 24-26, 32, 53, 56, 57, 62-64; *vulgaris*, 25, 32, 57, 61-65

American mycological literature, Index to, 160, 227, 285, 333

Amoeba, 322

Amorpha fruticosa, 10, 12; *nana*, 10, 11, 13

Anaptychia, 126

Andropogon, 17, 190, 200; *furcatus*, 17, 31, 200, 204; *glomeratus*, 200; *scoparius*, 9, 17, 31, 200; *virginicus*, 17, 31, 200, 204

Anemonella thalictroides, 9

Anthoxanthum odoratum, 11

Anthurus borealis, 167

Apios Apios, 10; *tuberosa*, 12

Aplanes, 322

Apocynum cannabinum, 9-13, 28

Aquilegia canadensis, 9

Arabis, 59-61, 65; *Drummondii*, 60; *Holboellii*, 10, 11, 20; *retrofracta*, 61

Aragallus Lamberti, 23, 32

Arenaria lateriflora, 186, 187, 193

Armillaria, 207, 211, 238; *albolan-
aripes*, 211; *arenicola*, 212; *mag-
nivularis*, 212; *mellea*, 211, 266;
nardosmia, 238; *subannulata*, 211

Arnica, 10, 11, 13, 20, 22, 23, 27

Aronia, 25; *arbutifolia*, 25, 32, 63, 65;
nigra, 25, 32

Artemisia, 21, 32; *dracunculoides*, 16,
21, 31, 32; *ludoviciana*, 21

Arthur, J. C., *Cultures of Uredineae*
in 1910, 7; in 1911, 49

Artificial cultures of *Aescobolus* and
Aleuria, 218

Asclepias syriaca, 19, 31

Aescobolus, 218, 220, 221; *applanatus*,
219; *carbonarius*, 221; *laevisporus*,
219; *latus*, 219; *magnificus*, 218,
219, 221, 222; *major*, 219; *miniatu-
s*, 45, 47; *sarawacensis*, 219

Aescobolus and *Aleuria*, Artificial cul-
tures of, 218

Aspergillus, 279; *flavescens*, 279, 280;
flavus, 279; *fumigatus*, 279; *glaucus*,
279; *niger*, 279

Aspergillus infecting *Malacosoma* at
high temperatures, 279

Aster, 7, 16, 21, 22, 144, 181, 199;
acuminatus, 180, 181, 193; *adscen-
dens*, 16, 30; *Drummondii*, 9, 21;
ericoides, 19, 21, 31, 32; *multiflorus*,
19, 31; *Novae-Angliae*, 19, 31;
paniculatus, 10, 13, 15, 21, 28, 32,
33; *punicus*, 181, 192; *Tweedyi*, 16

Astragalus, 24; *canadensis*, 13; *caro-
linianus*, 23, 32; *sulphurescens*, 23, 32

Atestia loxensis, 153

Atheropogon curtipendulus, 19, 31

Atriplex, 54, 55, 198; *confertifolia*,
52; *hastata*, 54, 55, 64; *patula*, 179,
198

Aurantiporellus alboluteus, 91

Auricularia auricula, 40

Auriscalpium Auriscalpium, 330

Bacidia, 126; *endoleuca*, 131; *rubella*,
131; *subgranulosa*, 131

Bacterium Savastanoi, 104

Baeomyces absolutus, 132; *erythrel-
lus*, 132

Bagniesiella, 70; *australis*, 70; *Di-
antherae*, 70

Banker, H. J., Type studies in the
Hydnaceae—I. The genus *Manina*,
271; II. The genus *Steccherinum*,
309

Barlaea, 45, 47

Barlaeina, 45, 47

Berberis vulgaris, 11, 18, 31

Beta, 198

Biatora, 126, 130-132; *amorpho-
carpa*, 127; *atrogrisea*, 131;

aurigera, 127; *coarctata*, 127;
endocaerulea, 128; *lanuginosa*,
128; *oncodes*, 128; *subgranulosa*,
131; *triseptata artytoides*, 130

Bilimbia, 126; *artyoides*, 130, 131;
hypnophila, 130; *molybditis*, 130;
pallidissima, 130; *radicicola*,
130; *sphaerooides*, 130; *terrestris*,
130; *thysanota*, 130

Bjerkandera adusta, 91

Black knot disease of *Dianthera
americana* L., A, 66

Boehmeria cylindrica, 10, 17, 28

Bolbitius, 73; *fragilis*, 73; *jalapensis*,
332; *mexicanus*, 332; *radians*,
246; *villipes*, 73

Boletaceae of the Pacific Coast, Poly-
poraceae and, 91

Boletellus Ananas, 99

Boletus Lakei, 97; *luteus*, 98; *mira-
bilis*, 217; *oregonensis*, 217;
Zelleri, 217

Bolls, *Botryosphaeria* on cotton, 34

Boltonia asteroides, 10, 12, 20

Bombyliospora *tuberculosa*, 131

Botryosphaeria, 34, 36; *Berengeriana*,
34; *fuliginosa*, 34, 36

Botryosphaeria on cotton bolls, 34

Bryophagus Gloeocapsa, 127

Buellia stipitata, 139; *subdiscifor-
mis*, 139

Bursa Bursa-pastoris, 55

Caeoma, 30, 146, 187-189, 195; *Abietis-
canensis*, 188, 189, 193; *coni-
genum*, 146; *occidentale*, 30

Caeomurus, 195

Calamagrostis canadensis, 18, 31

Calamovilia longifolia, 18, 31

Calcium, 152

Calliopora, 282

Callirhoe involucrata, 18, 31, 53

Calocera cornea, 40

Calvatia gigantea, 330

Calyptospora, 146; *columnaris*, 146,
177, 192

Capsella, 198

Carduus, 23; *Flodmanii*, 11, 22, 23, 32

Carex, 14-16, 21, 28, 54, 180, 199, 201;
arctata, 9, 180, 193; *aristata*, 17, 31;
brunneocana, 28; *crinita*, 180, 193;
debilis *Rudgei*, 180, 193; *deflexa*, 21,
22, 32, 181, 192; *festiva*, 16, 30;
Goodenovii, 28, 33; *gracillima*, 14,
201, 204; *intumescens*, 21, 22, 32,
180, 181, 192, 193, 199, 204; *lanug-
inosa*, 15, 30, 54, 64; *pallescens*, 13,
14, 30; *Pennsylvanica*, 7, 9; *pubes-
cens*, 14, 200, 201, 204; *scoparia*, 15,
22, 30, 181, 182, 192, 193, 199;
siccata, 16, 31; *stellulata*, 9; *steno-*

phylla, 16, 31; *stipata*, 181, 193; *stricta*, 17, 31; *tenella*, 9; *tenuis*, 13, 14, 30, 180, 201; *tribuloides*, 199, 204; *trichocarpa*, 15, 30; *trisperma*, 9, 181, 193; *varia*, 22
Cassia chamaecrista, 11, 12
Castanea dentata, 170, 171
Castilleja, 142; *integra*, 142
Catalpa, *Polystictus versicolor* as a wound parasite of, 263
Catillaria leptochella, 128; *rosea*, 128
Caulophyllum thalictroides, 9
Cephalanthus occidentalis, 19, 31
Ceratium oreophilum, 58, 65
Cerasstrum, 145
Ceratitum, 195
Cerionyces communis, 98, 100; *mirabilis*, 98, 217; *oregonensis*, 99, 217; *viscidus*, 99; *Zelleri*, 99, 217
 Certain species of *Puccinia* and *Uromyces*, Correlation between, 194
Chamaedaphne calyculata, 178, 192
Chantarel, 206; *alectorolophoides*, 206; *behringensis*, 206; *bryophilus*, 206; *Chantarellus*, 207; *flavosus*, 206; *infundibuliformis*, 206
Chiranthus Menziesii, 59
Chelone glabra, 9
Chenopodium, 198; *album*, 18, 19, 31, 54, 55, 64, 179, 192, 198
 Chestnut and oak, The large leaf spot of, 170
Chrysopogon avenaceus, 10
Cicuta maculata, 178, 179, 192
Cladonia, 132; *aggregata*, 132; *alpestris*, 132; *angustata*, 132; *ceratophylla*, 132; *dactylota*, 132; *degenensis*, 132; *didyma muscigena*, 132; *fimbriata simplex*, 132; *fimbriata subulata*, 132; *Floerkeana intermedia*, 132; *pityrea*, 132; *rangiformis*, 132; *sylvatica*, 132
Clavaria, 271, 273, 275
Clematis virginiana, 11
Cleome, 54, 198; *spinosa*, 54, 55, 64
Clitocybe, 4, 330
Clitopilus abortivus, 6; *Earlei*, 332
 Coast, *Polyporaceae* and *Boletaceae* of the Pacific, 91
 Coast, The *Agaricaceae* of the Pacific—I, 205; II, 231; III, 294
Coccocarpia pellita, 135; *pellita crocea*, 135
Coelocaulon divergens, 153
Coenogonium Leprieurii, 127
 Coker, W. C., Achlya DeBaryana Humphrey and the *prolifica* group, 319; Achlya *glomerata* sp. nov., 325; & Hyman, O. W., *Thraustotheca clavata*, 87
Coleosporium, 144; *Veronicae*, 29, 33, 57, 65
Collybia, 4; *stipitaria*, 5
Collybiidium dryophilum, 164; *zontatum*, 4
Coltricia perennis, 92
Comandra umbellata, 17, 31
 Combinations for tropical agarics, New, 331
Coniophora cerebella, 223
Conocybe, 72, 74, 244, 247; *angusticeps*, 248; *Bryorum*, 247, 248; *echinospora*, 75, 332; *Hypnorum*, 75, 247; *lirata*, 248; *semilanceata*, 248; *Sphagnorum*, 248; *tener*, 74, 247
Convallaria majalis, 11
Coprinus, 223; *Brassicaceae*, 2; *Spraguei*, 5
Cora pavonia, 140
Coriolellus Sepium, 92, 268, 270
Coriolus abietinus, 92; *nigromarginatus*, 92; *prolificans*, 92; *versicolor*, 92; *washingtonensis*, 92, 217
Cornicularia loxensis, 153
 Correlation between certain species of *Puccinia* and *Uromyces*, 194
Cortinarius, 72, 81, 243; *cinnamomeus*, 81; *mexicanus*, 81; *Sintenisii*, 81
Corydalis aurea, 18; *montanum*, 55; *sempervirens*, 19
Cotton bolls, *Botryosphaeria* on, 34
Coursetia glandulosa, 282, 283
Crataegus, 25, 261; *ceronis*, 26, 32, 57, 62, 65; *punctata*, 25, 32; *tomentosa*, 24, 25, 32, 57, 63, 65
Craterellus cornucopioides, 5
Crepidopus, 207, 216; *connatus*, 216; *ostreatus*, 216; *serotinus*, 216; *subsapidus*, 216, 217
Crepidotus, 244; *calolepis*, 245; *fulvomentosus*, 245; *Herbarum*, 244; *malachias*, 245; *mollis*, 245; *puberulus*, 245; *submollis*, 245
Cronartium, 144; *coleosporoides*, 142; *Quercum*, 144; *Quercus*, 26, 33; *ribicola*, 42, 104, 143
Crouania, 45, 47; *miniatia*, 45
Cryptoporus volvatus, 96
 Cultures of *Ascobolus* and *Aleuria*, Artificial, 218
 Cultures of heteroecious rusts, 175
 Cultures of *Uredineae* in 1910, 7; in 1911, 49
 Cummings, Clara Eaton, in *Jamaica*, An enumeration of lichens collected by—I, 125
Cydonia vulgaris, 25, 26, 32, 56
Dacryomyces, 40; deliquescent, 40
Daedalea unicolor, 328

Delphinium formosum, 10; *scaposum*, 11; *tricornе*, 11
 Descriptions of two new species, The genus *Lamprospora*, with, 45
Dianthera, 66; *americana*, 66, 70
Dianthera americana L., A black knot disease of, 66
Diaporthe parasitica, 157
Dichodium byrsinum, 133
Dichroum, 311
Dictyolus, 206; *retirugus*, 206
Dictyophora duplicata, 167
Dictyuchus, 87, 322; *clavatus*, 87
Diplodia, 34, 36; *gossypina*, 34, 35
Diploschistes scruposus, 127
Dirca palustris, 9-12
 Disease of *Dianthera americana* L., A black knot, 66
 Diseases in the eastern states, Notes upon tree, 148
Distichlis, 179; *maritima*, 202; *spicata*, 12, 18, 31, 52, 54, 55, 64, 179, 192, 198, 204
 Distribution, *Oropogon loxensis* and its North American, 152
Dodge, B. O., Artificial cultures of *Ascosporus* and *Aleuria*, 218
Doellingeria, 16; *umbellata*, 15
Drosophila, 294, 302; *ambigua*, 304; *appendiculata*, 302; *atrofolia*, 303; *californica*, 304; *campanulata*, 304; *longipes*, 303
Dryodon, 272, 276
 Eastern states, Notes upon tree diseases in the, 148
Edgerton, C. W., Botryosphaeria on cotton bolls, 34
Elaeagnus angustifolia, 11, 13
Eleocharis, 203; *palustris*, 12
Elephantopus carolinianus, 29
Elfvingia fasciata, 105; *megaloma*, 96
Elymus canadensis, 11; *triticoides*, 39
 Enumeration of lichens collected by Clara Eaton Cummings in Jamaica, An—I, 125
Epilobium, 177; *angustifolium*, 176, 192
Erigeron, 7, 13, 16, 22, 199; *annuus*, 13
Erioderma, 135; *microcarpa*, 134; *Wrightii*, 134
Eupatorium perfoliatum, 203; *serotinum*, 12
Euphorbia, 202, 203; *commutata*, 13; *corollata*, 202; *Cyparissias*, 23, 24
Eurotium repens, 279
Euthamia, 16, 22; *graminifolia*, 15, 30
Evolvulus pilosus, 28, 33
Favolus, 317
Festuca confinis, 27, 33
Flammula, 250; *astragalina*, 251; *californica*, 253; *carbonaria*, 165, 256; *decorata*, 262; *echinulispore*, 262; *fulvella*, 253; *Hillii*, 262; *laeticolor*, 262; *lata*, 262; *ornatula*, 262; *pallida*, 262; *penetrans*, 254; *permollis*, 262; *sapinea*, 254; *spinulifer*, 262; *spumosa*, 254; *subcarbonaria*, 262; *subflavida*, 262; *vialis*, 262; *viridans*, 262; *viscidissima*, 262
Fomes, 109; *annosus*, 96, 105; *Earlei*, 109-111, 114; *fraxinophilus*, 105; *juniperinus*, 109, 110, 114; *Laricis*, 95, 97, 105; *roseus*, 97; *texanus*, 109, 110, 112, 114; *ungulatus*, 97
 Forest trees, Notes on some western Uredineae which attack, 141
Fraser, W. P., Cultures of heterococous rusts, 175
Fraxinus lanceolatus, 11
Friesites, 272, 276
Fungi, Illustrations of—X, 1; XI, 163; XII, 289
Fusarium, 104, 106; *oxysporum*, 104
Galera, 74, 247; *angusticeps*, 248; *Besseyi*, 248; *Bryorum*, 247; *cuben-sis*, 75; *echinospora*, 332; *grisea*, 75; *Hypnum*, 75; *lirata*, 249; *semilanceata*, 248; *simulans*, 74; *sphaerobasis*, 247; *Sphagnorum*, 248; *tener*, 74; *versicolor*, 247
Gaura biennis, 15
Geaster juniperinus, 85, 86; *marginatus*, 84-86; *minimus*, 84-86
Geaster minimus Schw. and its relatives. Notes on Iowa saprophytes—I, 84
Gee, W. P., & *Massey*, A. B., *Aspergillus* infecting *Malacosoma* at high temperatures, 279
Gentiana, 203
 Genus *Lamprospora*, with descriptions of two new species, The, 45
 Genus *Lasiosphaeria*, The, 115
 Genus *Manina*, The. Type studies in the Hydnaceae—I, 271
 Genus *Stecherinum*, The. Type studies in the Hydnaceae—II, 309
Geopeltatum, 207, 214; *densifolium*, 215, 217; *geogenium*, 214; *orego-nense*, 215, 217; *porrigens*, 215; *subsepticum*, 215, 217
Glaua maritima, 187
Gloeophyllum hirsutum, 97
Godronia, 123; *Betheli*, 123; *striata*, 123
Gomphidius, 260, 294, 306, 308; *nigri-cans*, 306; *oregonensis*, 306; *tomen-tosus*, 307; *vinicolor*, 307, 308

Graves, A. H., The large leaf spot of chestnut and oak, 170

Grindelia squarrosa, 10, 19, 20, 22, 27, 31

Group, Achlya DeBaryana Humphrey and the prolifera, 319

Gyalecta, 127; *Gloeocapsa*, 127

Gymnoconia interstitialis, 53

Gymnopilus, 244, 250, 261; *californicus*, 252; *carbonarius*, 250, 256, 257; *decoratus*, 250-252, 262; *echinulisperus*, 250, 255, 262; *foedatus*, 257; *fulvellus*, 253; *Hillii*, 253, 262; *laeticolor*, 250, 251, 262; *latus*, 257, 262; *ornatus*, 251, 262; *pallidus*, 252, 262; *penetrans*, 254; *permollis*, 252, 262; *sapineus*, 254; *spinulifer*, 254, 262; *spinosus*, 254, 256; *subcarbonarius*, 256, 262; *subflavidus*, 250, 252, 262; *vialis*, 255, 262; *viridans*, 250, 257, 262; *viscidissimus*, 256, 262

Gymnosporangium, 24, 40, 41, 50, 62, 63, 106, 195, 197, 223; *bermudianum*, 50; *Betheli*, 25, 32; *clavariaeforme*, 24, 32, 53, 56, 64; *clavipes*, 24, 32; *cornutum*, 25, 32; *Davisi*, 25, 32; *durum*, 61, 62, 65; *effusum*, 50, 62, 65; *Ellisii*, 50; *fraternum*, 50; *gracilem*, 63, 65; *inconspicuum*, 57, 64; *juvenescens*, 26, 62; *juniperinum*, 57, 65; *Juniperi-virginianae*, 24, 32; *Kernianum*, 62, 65; *Libocedri*, 57, 65; *Nelsoni*, 26, 32, 61, 62, 65; *nidus-avis*, 25, 26, 32, 56, 64; *speciosum*, 63; *tremelloides*, 57, 65

Haematomma puniceum, 138

Halameda, 320

Hebeloma, 72, 82, 243; *Broadwayi*, 82; *cinchonense*, 82; *foedatum*, 257; *longicaudum*, 83; *subincarnatum*, 83

Hedgecock, G. G., Notes on some western Uredineae which attack forest trees, 141; & Long, W. H., Preliminary notes on three rots of juniper, 109

Hericium, 272-275; *alpestre*, 274, 275; *Echinus*, 274; *grandis*, 277; *Hystrix*, 274; *Notariis*, 274

Heterococcius rusts, Cultures of, 175

Heterothecium, 128, 129, 131

Hevea, 102

Hibiscus militaris, 18

Hicoria, 121

High temperatures, *Aspergillus* infecting *Malacosoma* at, 279

Hordeum jubatum, 39

Howe, R. H., Jr., *Oropogon loxensis* and its North American distribution, 152

Humaria calospora, 48

Hydnaceae, Type studies in the—I. The genus *Manina*, 271; II. The genus *Steccherinum*, 309

Hydnum, 274, 276, 317; *abietinum*, 276; *alpestre*, 275; *basi-asperatum*, 312, 313; *Caput-medusae*, 274, 275, 277; *Caput-ursi*, 272, 277; *conchiforme*, 318; *coralloides*, 272-276; *croceum*, 278; *Daviesii*, 309; *decurvens*, 318; *dichromum*, 310-312, 330; *Echinus*, 274; *Erinaceus*, 272, 275, 277, 330; *flabelliforme*, 311, 312; *glaberescens*, 315; *glabrescens*, 312, 315, 316; *guaraniticum*, 312, 313; *hystrixinum*, 273, 274; *Hystrix*, 273, 274; *laciniatum*, 276; *laeticolor*, 316; *Notariis*, 275; *ochraceum*, 309, 310, 312; *Persoonianum*, 312; *plumaria*, 317, 318; *plumosum*, 317; *pudorium*, 310-312; *pusillum*, 313; *ramarium*, 274; *ramosum*, 276; *rawakense*, 312, 313, 315; *reniforme*, 312; *Rhois*, 311, 312; *rubiginosum*, *Necium Farlowii*, 182, 193

Hydrocybe, 207; *albo-umbonata*, 332; *arenicola*, 208, 217; *aurantia*, 332; *coccinea*, 208; *conica*, 207; *constans*, 208, 217; *cremicolor*, 209, 217; *Earlei*, 332; *flavolutea*, 332; *hondurensis*, 332; *rosea*, 332; *subcaespitosa*, 332; *subflavida*, 332; *subminiatia*, 332; *troyana*, 332

Hydropylium capitatum, 10, 11, 27, 29, 53; *virginicum*, 10, 12, 20

Hygrophorus, 207, 209; *albo-umbonatus*, 332; *arenicola*, 217; *aurantius*, 332; *coccineus*, 208; *constans*, 217; *cremicolor*, 217; *Earlei*, 332; *eburneus*, 209; *flavodiscus*, 6; *flavoluteus*, 332; *fragrans*, 210; *hondurensis*, 332; *Laurae*, 210; *limacinus*, 210; *miniatus*, 208; *roseus*, 332; *rubropunctatus*, 210; *subcaespitosus*, 332; *subflavidus*, 332; *subminiatus*, 332; *subpustulatus*, 210; *troyanus*, 332; *variicolor*, 209

Hyman, O. W., Coker, W. C., & Thraustothecia clavata, 87

Hypholoma, 294, 302, 303, 305; *ambiguum*, 304; *appendiculatum*, 1, 302; *atrofolium*, 303; *californicum*, 304; *campanulatum*, 304; *capnoides*, 305; *cutifractum*, 302; *fasciculare*, 305, 306; *flocculentum*, 303; *lacrymabundum*, 302; *longipes*, 303, 304; *sublateritium*, 302

Hypodendrum, 72, 244, 261; *flam-*

mans, 261; **limonellum**, 261;
oregonense, 261, 262
Hypodermium, 101, 195
Hyponevris, 207, 213; *alneus*, 213, 214
Hypoxylon, 121; *miliaceum*, 121

 Illustrations of fungi—X, 1; XI, 163;
 XII, 289
Impatiens, 20; *aurea*, 11, 20, 32
 Index to American mycological literature, 160, 227, 285, 333
Inocybe, 72, 82, 243; **jamaicensis**,
 82; *rimosa*, 4
Inonotus dryophilus, 104; *texanus*, 104
 Iowa saprophytes, Notes on—I. *Geaster*
minimus Schw. and its relatives, 84
Iris, 28; *versicolor*, 28
Irpiciporus, 94
Ischnoderma fuliginosum, 92
Isoporum bitemnatum, 9, 11

 Jamaica, An enumeration of lichens
 collected by Clara Eaton Cummings
 in—I, 125
Juncea balticus, 22, 23, 32
 Juniper, Preliminary notes on three
 roots of, 109
Juniperus monosperma, 63, 65, 112, 113;
sabinooides, 112, 113; *scopulorum*,
 25, 32; *sibirica*, 24, 25, 32, 56, 57, 64,
 65; *utahensis*, 56, 61, 62, 64, 65, 112,
 113; *virginiana*, 24–26, 32, 56, 62,
 64, 65, 85, 109, 111

Kalmia, 150; *angustifolia*, 150; *lati-*
folia, 150
 Knot disease of *Dianthera americana*
 L., A black, 66
Koeleria, 59, 60; *cristata*, 20, 31, 59

Laccaria, 207, 211; *laccata*, 211;
ochropurpurea, 211
Lachnea scutellata, 38
Laciniaria punctata, 9, 10, 57; *scari-*
osa, 12, 20, 29, 57; *spicata*, 9, 10, 12
Lactaria, 207, 289
Lactuca canadensis, 16, 31; *sativa*, 16,
 31; *scariola*, 13
Laetiporus speciosus, 92
Lamprospora, 45, 47; **areolata**, 48;
tuberculata, 47
 Lamprospora, with descriptions of two
 new species, The genus, 45
 Large leaf spot of chestnut and oak,
 The, 170
Larix, 29, 188, 189; *laricina*, 29, 58,
 188, 189
Lasiosphaeria, 115–117, 123; *ambigua*,
 122; *canescens*, 118; *dichroospora*,
 117, 123, 124; **globularis**, 117, 121,
 123; *hirsuta*, 119; *hispida*, 117, 119—
 121, 123; *Hystrix*, 118; **jamaicensis**,
 117, 122, 123; *mucida*, 117,
 118, 121, 124; **multiseptata**, 117,
 120, 124; *newfieldiana*, 117, 122,
 123; *ovina*, 118; *Rhacodium*, 119;
spermooides, 121; *striata*, 123; *stri-*
gosa, 117, 118, 123; *stuprea*, 117,
 119, 123; *terrestris*, 117, 120, 124
Lasiosphaeria, The genus, 115
Lathyrus palustris, 13
 Leaf spot of chestnut and oak, The
 large, 170
Lecanora, 138; *pallida*, 137; *subfuscata*,
 137; *varia*, 138
Lecidea, 126–131; *leucoblephara*, 126;
microphyllina subgranulosa, 131
Ledum, 26, 178; *groenlandicum*, 26,
 33, 177, 178, 192
Lentinus lepideus, 257
Lenzites betulina, 97; *sepiaria*, 101
Leparyraea canadensis, 10–13
Lepidium, 198; *virginicum*, 55
Lepiota, 231, 238; *adnatifolia*, 237;
agricola, 332; *amiantina*, 237,
 238; **amplifolia**, 233; *aspera*, 238;
asperula, 238; *brunneascens*, 236;
carcharias, 237; **castaneoidisca**,
 232; **castanescens**, 234; *cepa-*
stipes, 232; **concentrica**, 235; *cre-*
tacea, 232; *cristata*, 232, 233; *crista-*
tella, 232; *eriphora*, 238; **fulgi-**
nescens, 236; *fulvodisca*, 212;
fumosifolia, 233; *fuscosquamea*,
 235; *granosa*, 237; *granulosa*, 237;
granulosa amiantina, 238; **mag-**
nispora, 237; **McMurphyi**, 217;
mutata, 233; *nardosmiooides*, 238;
naucina, 236; *petasiformis*, 232;
roseicremaea, 217; *roseifolia*,
 235; *roseilivida*, 234; *rubrotincta*,
 237; **rubrotinctoides**, 236; *rugoso-*
reticulata, 237; **Sequoiarum**, 233;
subfelia, 234; *subnivosa*, 231
Leptogium bullatum, 133; *chloro-*
leum, 133; *foveolatum*, 134; *lacerum*,
 133; *marginellum*, 133; *myochroum*
tomentosum, 134; *phyllocarpum*,
 133; *punctulatum*, 133; *saturninum*,
 134; *tremelloides*, 134; *tremelloides*
impresso-punctatum, 134
Leptonia atrosquamosa, 332; *cinch-*
onensis, 332; **Earlei**, 332;
mexicana, 332
Leptoniella atrosquamosa, 332; *cinch-*
onensis, 332; *Earlei*, 332; *mexi-*
cana, 332
Leptospora, 115, 117; *ovina*, 118;
spermooides, 121; *strigosa*, 118
Leucomyces, 239; *mexicanus*, 332
 Lewis, I. M., A black knot disease of
Dianthera americana L., 66

Libocedrus decurrens, 57, 65
 Lichens collected by Clara Eaton Cummings in Jamaica, An enumeration of—I, 125
Limacella, 207, 212; *agricola*, 332; *fulvodisca*, 212; *McMurphyi*, 213, 217; *roseicremaea*, 212, 217
 Literature, Index to American mycological, 160, 227, 285, 333
Lithospermum canescens, 10, 11
Lobaria, 135; *corrosa*, 135; *erosa*, 136; *pallida*, 135; *peltigera*, 135; *querzizans*, 136
Locellina, 244, 262; *californica*, 262; *stercoraria*, 262
 Long, W. H., Two new species of rusts, 282
 Long, W. H., Hedgecock, G. G. &, Preliminary notes on three rots of juniper, 109
Lopadium amaurum, 131; *leucoxanthum*, 131
Lophodermium nervisequum, 149
Lycopus americanus, 17, 31, 54, 64
Lygodesmia juncea, 58, 65
Lysimachia quadrifolia, 9, 10; *terrestis*, 9, 12, 13, 22, 28

 Macbride, T. H., Notes on Iowa saprophytes—I. *Geaster minimus* Schw. and its relatives, 84
Macrocalyx Nyctelea, 11, 28
Macrophoma, 34, 103
Mahonia Aquifolium, 11
Malacosoma americana, 279, 280
Malacosoma at high temperatures, Aspergillus infecting, 279
Malus, 56; *coronaria*, 26, 56, 63, 64; *Malus*, 24, 32, 63
Malvastrum coccineum, 52
Manina, 271–276, 278; *Caput-ursi*, 277; *coralloides*, 276, 330; cordiformis, 272, 275, 277, 330; flagellum, 276; *Schiedermayeri*, 277
 Manina, The genus. Type studies in the Hydnaceae—I, 271
Marasmius, 4, 5, 157; *magnisporus*, 166; *oreades*, 224; *Vallantii*, 167; *viticola*, 167
Martella, 273
Martella, 273–275; *Echinus*, 273, 274
 Massey, A. B., Gee, W. P., &, Aspergillus infecting *Malacosoma* at high temperatures, 279
Medicago, 24, 56; *sativa*, 13, 24, 32, 56, 64
Medusina, 272, 275; *coralloides*, 276; *patula*, 272, 275, 277
Megalospora Cummingsiae, 129; *jamaicensis*, 129; *sulphurata*, 129; *versicolor*, 129

Melampsora, 30, 146, 188, 189; *albertensis*, 29, 33, 58, 65; *arctica*, 187, 193; *Bigelowii*, 189; *Medusae*, 185, 189, 193
Melampsorella elatina, 58, 65, 145
Melampsoropsis, 175; *abietina*, 26, 33, 178, 192; *Cassandrae*, 178, 192; *ledicola*, 177, 192; *Pyrolae*, 183, 184, 193
Melanoleuca jalapensis, 332; *jamicensis*, 332; *subisabellina*, 332
Melanops Quercum, 34
Meriolix, 15; *serrulata*, 9, 15, 30, 54
 Merisma, 274
Merulius lacrymans, 223, 327
Metasphaeria sublanosa, 118
Microsphaera quercina, 223
Microphiale lutea, 127
Mimulus ringens, 10, 12
 Monochaetia, 172; *Desmazierii*, 104, 170–174, 330, 331; *monochaeta*, 172; *pachyspora*, 170, 331
Monolepis Nuttalliana, 18, 19, 54
Mucor, 88
Muhlenbergia gracilis, 18; *racemosa*, 18, 31
 Murrill, W. A., Illustrations of fungi —X, 1; XI, 163; XII, 289; New combinations for tropical agarics, 331; Polyporaceae and Boletaceae of the Pacific Coast, 91; The Agaricaceae of the Pacific Coast—I, 205; II, 231; III, 294; The Agaricaceae of tropical North America—V, 72
Mycelophagus Castaneae, 223
Mycena, 72, 73; *fragilis*, 73; *jalapensis*, 73, 332; *mexicana*, 73, 332; *praedecurrentis*, 165; *vxans*, 168; *villipes*, 73; *vulgaris*, 165
 Mycological literature, Index to American, 160, 227, 285, 333
Myrica cerifera, 9, 10, 11, 28
Myxosporium acerinum, 151

Naematelia encephala, 40; *nucleata*, 40
Napaea dioica, 18
Naucoria, 72, 74, 75, 81, 243; *corticola*, 77; *cyathicola*, 77; *Earlei*, 77; *euthugrammus*, 76; *hepaticola*, 78; *jalapensis*, 77; *montana*, 78; *oinodes*, 76; *paludosa*, 249; *pectinata*, 76; *pediades*, 76; *pellucida*, 78; *Sacchari*, 79; *semi-orbicularis*, 76; *siderides*, 80; *spinulifer*, 79; *subvelosa*, 164; *tepeitenensis*, 79; *Underwoodii*, 80; *xuchilensis*, 80
Necium Farlowii, 182, 193
Nectria cinnabarinaria, 266
 New combinations for tropical agarics, 331

New species of rusts, Two, 282
 New species, The genus *Lamprospora*, with descriptions of two, 45
 News and notes, 37, 101, 157, 223, 327
Nigredo, 195, 223
 North America, The Agaricaceae of tropical—V, 72
 North American distribution, *Oropogon loxensis* and its, 152
 Notes, News and, 37, 101, 157, 223, 327
 Notes on Iowa saprophytes—I. *Geaster minimus* Schw. and its relatives, 84
 Notes on some western Uredineae which attack forest trees, 141
 Notes on three rots of juniper, Preliminary, 109
 Notes upon tree diseases in the eastern states, 148
 Oak, The large leaf spot of chestnut and, 170
Ocellularia actinotum, 126; **anamorphum**, 126; *auberianoides*, 126; *clandestina*, 127; *terebrita*, 127
Odontia fimbriata, 330
 Oidium, 223
Omphalia, 165; *Austinii*, 165; *Campanella*, 168, 250
Omphalopsis Campanella, 168
Onagra, 15; *biennis*, 15, 16, 30, 54, 64; *pallida*, 53
Onoclea, 190; *sensibilis*, 190, 191
Onosmodium hispidissimum, 11; *occidentale*, 10
Orchis spectabilis, 9
Oropogon, 152, 153; *loxensis*, 152-154
Oropogon loxensis and its North American distribution, 152
 Orton, C. R., Correlation between certain species of *Puccinia* and *Uromyces*, 194
Otomycosis aspergillina, 279
Oxygraphis Cymbalaria, 54, 64
Oxytropis, 23; *Lamberti*, 23
 Pacific Coast, Polyporaceae and Boletaceae of the, 91
 Pacific Coast, The Agaricaceae of the—I, 205; II, 231; III, 294
Panicum virgatum, 12, 202, 204
Pannaria, 134; *leucosticta*, 134; *molyldea*, 135; *rubiginosa*, 134
Panus stipticus, 77
 Parasite of catalpa, *Polystictus versicolor* as a wound, 263
Parmelia cetrata ciliosa, 138; *cetrata subsidiosa*, 138; *laevigata*, 138; *perforata*, 138
Parmeliella tryptophylla, 134
Paxillus, 72, 243, 244; *atrotomentosus*, 244; *involutus*, 244; *ligneus*, 73; *panuoides*, 73
Peltigera canina, 137; *polydactyla*, 137
Pentstemon alpinus, 17, 31; *barbatus*, 17; *hirsutus*, 17, 31
Periderium, 50, 141-146, 184, 189, 190, 195, 282, 284; *abietinum*, 178; *balsameum*, 189-191; *carneum*, 29, 57; *Cerebrum*, 26, 143, 144; *coloreadense*, 145; *Conorum-Piceae*, 146, 183, 184, 193; *consimile*, 178; *decolorans*, 178; *delicatulum*, 282, 284; *elatum*, 145; *filamentosum*, 141-144; *fructigenum*, 150, 185, 186; *Harknessii*, 143, 144; **inconspicuum**, 283; *montanum*, 144, 284; *Peckii*, 186, 193; *pseudobalsameum*, 146; *stalactiforme*, 142; *Strobii*, 42, 143
Pertusaria cryptocarpa, 137; *leioplacella*, 137; *tuberculifera*, 137; *velata*, 137
Pestalozzia, 172, 331; *monocheata*, 172
Petalostemum purpureum, 10-12
Phacelia heterophylla, 10
Phaeolus sistotreoides, 93
Phalaris arundinacea, 11
Phialocybe, 72
Philadelphus, 63, 64; *coronarius*, 62, 63, 65
Phlebia, 317; *hydnoides*, 278
Phlox, 29; *divaricata*, 12, 29
Pholiota, 72, 244, 258; *aeruginosa*, 257; **albivelata**, 260; *anomala*, 259; *autumnalis*, 330; *candidans*, 259; *marginata*, 258; **McMurphyi**, 260; **oregonensis**, 262; *praecox*, 259; **subnigra**, 258; *unicolor*, 258; *ventricosa*, 260; **washingtonensis**, 259
Pholiotina, 72
Phoma, 106; *piciena*, 151; *pigmamentaria*, 38
Phragmidium, 194, 195, 197
Phragmites communis, 54, 64
Phragmopxis, 282
Phryma leptostachya, 9
Phyllopsora furfuracea, 131; *parvifolia*, 132
Physalis, 11
Physcia, 126; *comosa*, 140; *hypoleuca*, 140; *leucomela*, 140
Physcidia Wrightii, 138
Physma byrsaeum, 133
Picea, 26, 178, 183, 184; *canadensis*, 177, 178, 183, 192, 193; *Engelmanni*, 145, 146; *excelsa*, 151; *Mariana*, 26, 33, 178, 183, 184, 192, 193; *Parryana*, 145; *rubra*, 151, 178, 192; *sitchensis*, 145

Pilocarpon tricholoma, 126
Pinus, 42; *chihuahuana*, 146; *contorta*, 142-144; *Jeffreyi*, 143; *ponderosa*, 141, 143; *radiata*, 143; *rigida*, 282; *sabiniana*, 143; *taeda*, 29, 33, 57, 65; *virginiana*, 26, 33, 282, 284
Pisum sativum, 13
Pleurage, 116; *albicans*, 116; *lutea*, 116
Pleuropus abortivus, 6; *Earlei*, 332
Pleurotus, 4, 207, 217; *candidissimus*, 215; *corticatus*, 217; *densifolius*, 217; *dryinus*, 217; *geogenius*, 3; *oregonensis*, 217; *ostreatus*, 216; *sapidus*, 159, 216; *septicus*, 215; *serotinus*, 216; *serotinus*, 216; *subareolatus*, 217; *subsapidus*, 217; *subsepticus*, 217
Plicaria echinospora, 221
Plowrightia, 70
Pluteolus, 72, 74, 244, 246, 247; *californicus*, 246; *callistus*, 247; *expansus*, 247; *luteus*, 246, 247; *parvulus*, 246; *stramineus*, 246; *tropicalis*, 74
Pluteus stereorarius, 262
Podiosoma, 195
Polemonium, 29; *repants*, 10, 12, 28, 29, 33
Polygala Senega, 12, 13
Polygonatum commutatum, 11
Polyporaceae and Boletaceae of the Pacific Coast, 91
Polyporus carbonarius, 217; *carneus*, 109; *cutifractus*, 217; *elegans*, 93; *juniperinus*, 109, 110; *oregonensis*, 217; *perdelicatus*, 217; *Pseudotsugae*, 217; *sensibilis*, 217; *substipitatus*, 217
Polystictus abietinus, 113; *versicolor*, 263, 264, 266-270; *washingtonensis*, 217
Polystictus versicolor as a wound parasite of *catalpa*, 263
Populus, 30, 189; *acuminata*, 147; *angustifolia*, 147; *balsamifera*, 147; *grandidentata*, 147, 188, 193; *tremuloides*, 29, 33, 58, 65, 147; *trichocarpa*, 147
Poria, 113; *vaporaria*, 223
Porodaealea Pini, 97, 105
 Preliminary notes on three rots of juniper, 109
 Prolifera group, *Achlya* DeBaryana Humphrey and the, 319
Psathyra, 81
Psathyrella, 303
Pseudotsuga, 29, 30, 58, 261, 330; *mucoznata*, 29, 33, 58, 65; *taxifolia*, 96
Psilocybe, 330
Puccinellia airoides, 54, 64
Puccinia, 9, 11, 14, 21, 22, 55, 56, 180, 181, 194-197, 199, 200, 203, 204; *Absinthii*, 21, 32; *albiperidia*, 13 (see page 49), 14, 15, 30 (see page 49), 49, 180, 193, 200, 201; *amphigena*, 18, 31; *Andropogonis*, 7, 17, 31; *angustata*, 7, 17, 31, 54, 64; *angustatoides*, 203; *Anthoxanthi*, 11; *argentata*, 20, 32; *Caricis*, 7, 17, 31; *Caricis-Asteris*, 16, 28, 30, 181, 193, 199, 204; *Caricis-erigerontis*, 199; *Caricis-Solidaginis*, 15, 30, 181, 193, 199; *cinerea*, 54; *Crandallii*, 27, 33; *Distichlidis*, 11, 202, 204; *Eatoniae*, 61; *Eleocharidis*, 203; *Ellisia*, 7, 9, 199, 200, 204; *emaculata*, 7; *fraxinata*, 7; *Gentianae*, 203; *graminis*, 39, 107; *Grossulariae*, 14; see page 49 for error; *heterantha*, 203; *Impatiens*, 7; *Jamesiana*, 19, 31; *Lithospermi*, 28, 33; *Lygodesmia*, 58, 65; *malvacaeum*, 329; *monoica*, 61, 65; *montanensis*, 11; *Muhlenbergiae*, 18, 31; *opaca*, 203; *Opizii*, 16, 31; *Panici*, 202; *Pammelliae*, 202-204; *Peckii*, 7, 15, 30, 54, 64, 181; *permixta*, 9; *perplexans*, 179, 192; *Phragmites*, 54, 64; *poculiformis*, 7, 18, 31; *pustulata*, 7, 17, 31; *quadriflorula*, 28, 33; *Rhamni*, 11, 18, 31; *Ruelliae-Bourgaei*, 203; *Seymouriana*, 19, 31; *Schedonarii*, 10, 53; *Stipa*, 19, 31, 59; *subnitens*, 18, 31, 52, 54-56, 64, 198, 204; *tosta*, 10, 52; *Triseti*, 59; *uniporula*, 201, 204; *universalis*, 16, 31; *vexans*, 7; *virgata*, 10
 Puccinia and Uromyces, Correlation between certain species of, 194
Pucciniastrum agrimoniae, 191; *arctium*, 190, 191; *minimum*, 184, 186, 193; *Myrtilli*, 186; *pustulatum*, 176, 177, 192
Pulicaria, 23
Pyrola, 183, 184; *americana*, 184, 193; *elliptica*, 184, 193
Pyropolyporus Earlei, 111; *Everhartii*, 104; *igniarius*, 97, 104; *juniperinus*, 110; *texanus*, 112
Pyrus communis, 25, 63
Pyxine picta, 139
Quercus Ilex, 172; *nigra*, 331; *Prunus*, 103; *rubra*, 26, 33, 170, 172, 331
Ramalina denticulata, 138; *linearis*, 138; *usneoides*, 138

Ranunculus abortivus, 61; *acris*, 179, 192
Razoumofskya cryptopoda, 142
 Relatives, Geaster *minimus* Schw. and its. Notes on Iowa saprophytes—I, 84
Resupinatus, 207, 214; *atrocereus*, 214
Rhamnus, 11; *alnifolia*, 11, 18, 31; *cathartica*, 11
Rhododendron, 150; *arborescens*, 150; *calendulaceum*, 150; *canadense*, 150; *canescens*, 150; *catawbiense*, 150; *nudiflorum*, 150; *maximum*, 150; *viscosum*, 150
Rhodora, 184, 185; *canadense*, 184, 193
Rhyncospora, 203
Ribes, 14, 42, 180, 200, 201; *Cynosbati*, 9, 13, 30, 58, 180, 200; *floridum*, 28; *oxyacanthoides*, 180, 193; *prostratum*, 180, 193
Ricasolia subdissecta, 136
 Riddle, L. W., An enumeration of lichens collected by Clara Eaton Cummings in Jamaica—I, 125
Rinodina Conradi, 139; *exigua*, 139; *sophodes* *exigua*, 139
Roestelia hyalina, 50; *transformans*, 63
Rostkovites granulatus, 100
 Rots of juniper, Preliminary notes on three, 109
Rubus, 190, 191; *allegheniensis*, 53
Rudbeckia laciniata, 9, 12, 13, 28; *triloba*, 9-11
Ruellia, 203
Rumex, 196; *crispus*, 54, 64
Russula, 207, 289; *foetens*, 292; *emetica*, 290; *Mariae*, 290, 293; *obscura*, 291; **rubriochracea**, 293; *sericeonitens*, 290; **stricta**, 166; **sulcata**, 291; *uncialis*, 292
 Rusts, Cultures of heterococous, 175
 Rusts, Two new species of, 282
Ryssospora, 72
Salicornia, 179; *europaea*, 179, 187, 192
Salix, 147; *amygdaloidea*, 147; *Bebbiana*, 147; *cordata lutea*, 147; *cordata Mackenziana*, 147; *discolor*, 188, 193; *fluvialis*, 147; *laevigata*, 147; *lasiandra*, 147; *lasiandra caudata*, 147; *lucida*, 147; *nigra*, 147; *Nuttallii*, 147; *rostrata*, 188; *sessifolia*, 147
Sambucus racemosa, 180
Saprolegnia asterophora, 326
 Saprophytes, Notes on Iowa—I. Geaster *minimus* Schw. and its relatives, 84
Sarcobatus, 198; *vermiculatus*, 54
Schedonnardus paniculatus, 10, 53
Schizophyllum, 213; *commune*, 213; *Egelingianum*, 214; *exiguum*, 214; *fasciatum*, 213; *flabellare*, 214; *mexicanum*, 214; *multifidum digitatum*, 214; *pavonium*, 214; *pusillum*, 214; *umbrosum*, 213, 214
Schizophyllum, 213
Scirpus atrovirens, 17, 31; *campestris*; *paludosus*, 178, 192; *cyperinus*, 54, 64; *fluvialis*, 179; *paludosus*, 178; *validus*, 179
Scutiger oregonensis, 93, 217; *retipes*, 93
 Seaver, F. J., The genus *Lamprospora*, with descriptions of two new species, 45; The genus *Lasiosphaeria*, 115
Senecio Douglasii, 9, 11; *lugens*, 11, 20, 28, 31
Septoria ochroleuca, 104, 170
Sidalcea oregana, 10, 22, 53
Sitanion longifolium, 18, 31
Smilax hispida, 18, 31
Solidago, 7, 16, 22, 181, 199; *bicolor*, 181, 192; *caesia*, 9; *canadensis*, 9, 13, 15, 19, 21, 31; *graminifolia*, 181, 192, 193; *lanceolata*, 15; *memorialis*, 15, 21; *rigida*, 10; *rugosa*, 15, 21, 32, 181, 193
 Some western Uredineae which attack forest trees, Notes on, 141
Sorbus, 25; *americana*, 25, 32, 57, 65; *aucuparia*, 57, 63
Spartina, 11, 12, 186, 201; *cynosuroides*, 12, 29; *glabra alterniflora*, 186, 187, 193; *gracilis*, 201, 202, 204; *Michauxiana*, 12, 19, 29, 31, 33, 186, 187, 193, 201; *patens*, 12, 186, 187, 193
 Spaulding, Perley, Notes upon tree diseases in the eastern states, 148
 Species of *Puccinia* and *Uromyces*. Correlation between certain, 194
 Species of rusts, Two new, 282
 Species, The genus *Lamprospora*, with descriptions of two new, 45
Spergularia canadensis, 179, 186, 187, 193
Sphaeria canescens, 118; *emergens*, 119; *globularis*, 121; *hirsuta*, 119; *hispida*, 119; *mucida*, 118; *mutabilis*, 118; *orthotricha*, 119; *ovina*, 115, 117, 118; *Rhacodium*, 119, 121; *spermoidea*, 121; *strigosa*, 118; *sublanosa*, 118; *terrestris*, 120
Sphaerophorus compressus, 126
Sphaeropsis, 34, 36; *tumefaciens*, 329
Spongipellis sensibilis, 93, 217
Sporobolus asperifolius, 10, 52; *neglectus*, 13

Steccherinum, 309, 317; *adustum*, 313; **basi-badium**, 314; **di-chroum**, 310, 311; **laeticolor**, 316, 318; *Morgani*, 315, 316; **multifidum**, 317, 318; *ochraceum*, 310-312, 317, 318; **Peckii**, 314, 315; **pusillum**, 313; *querincum*, 277; **rawakense**, 312, 313, 315; *Rhois*, 310, 311, 314
Steccherinum, The genus. Type studies in the Hydnaceae—II, 309
Steironema, 12, 202; *ciliatum*, 12, 29, 201
Stellaria graminea, 187; *media*, 187
Stereocaulon cornutum, 133; *pityri-zans*, 133; *ramulosum*, 133
Stereum purpureum, 105
Stevens, N. E., *Polystictus versicolor* as a wound parasite of catalpa, 263
Sticta, 135; *aurata*, 136; *crocata*, 136; *crocata leucosticta*, 136; *damae-cornis*, 136; *damaecornis elongato-laciniata*, 136; *damaeornis sinuosa*, 136; *dissecta*, 135; *dissecta corrosa*, 135; *erosa*, 136; *Fendleri*, 135; *Mougeotiana*, 136; *peltigera*, 136; *querizans*, 137; *tomentosa*, 137; *Weigelii*, 137
Stipa, 19, 31, 59, 60; *spartea*, 19, 31; *viridula*, 59
Strobilomyces strobilaceus, 99
Stropharia, 294, 300, 305; *aeruginosa*, 300; *bilamellata*, 302; **longistriata**, 301; *magnivelaris*, 301; *semi-globata*, 2, 300, 301; **semigloboides**, 301; *stercoraria*, 300, 301
Studies in the Hydnaceae, Type—I. The genus *Manina*, 271; II. The genus *Steccherinum*, 309
Suedia, 179; *maritima*, 179
Suillellus luridus, 100, 163
Symporicarpus oreophilus, 28; *pau-ciflorus*, 10; *racemosus*, 10-12, 20, 27, 33
Tachaphantium, 40
Tapinia, 72, 243, 244; **ligneum**, 73; *panuoides*, 244
Teloschistes flavicans, 139
Temperatures, *Aspergillus* infecting *Malacosoma* at high, 279
Thalictrium dioicum, 9; *polygamum*, 10
Thalloidima, 131
Thelophora, 317; *multifida*, 317
Thelotrema, 126; *concretum*, 127
Thraustotheca, 87, 88; *clavata*, 87
Thraustotheca clavata, 87
Three rots of juniper, Preliminary notes on, 109
Thuya, 95; *plicata*, 92
Tissa canadensis, 11, 12, 19, 21, 55
Tonina janeirensis, 131
Trametes Pini, 145; *Sepium*, 268
Tree diseases in the eastern states, Notes upon, 148
Trees, Notes on some western Uredineae which attack forest, 141
Tremella, 40
Tricella, 282; **acuminata**, 282
Tricholoma jalapensis, 332; *jamai-censis*, 332; *subisabellina*, 332
Trifolium, 24; *medium*, 24, 56; *prati-tense*, 13, 24, 56; *repens*, 24, 56
Trillium cernuum, 11
Triphragmium, 195
Trisetum, 59-61; *majus*, 11, 59, 65; *subspicatum*, 59, 60, 65
Tropical agarics, New combinations for, 331
Tropical North America, The Agaricaeae of—V, 72
Tsuga, 184, 185, 189, 191; *canadensis*, 150, 176, 177, 182, 184-186, 188, 189, 191, 193; *ciniastrium minimum*, 185; *heterophylla*, 95; *Pattoniana*, 119
Tubaria, 244, 249, 259; *brevipes*, 250; *contraria*, 249; *deformata*, 249; *Eucalypti*, 249; *furfuracea*, 249; *inquilina*, 249; *pallescens*, 249; *pellu-cida*, 79; *tenuis*, 249
Two new species of rusts, 282
Two new species, The genus *Lamprospora*, with descriptions of, 45
Type studies in the Hydnaceae—I. The genus *Manina*, 271; II. The genus *Steccherinum*, 309
Tyromyces caesius, 94; **carbonarius**, 94, 217; *chioneus*, 94; **cutifractus**, 94, 217; *guttulatus*, 95; **perdelicatus**, 95, 217; **Pseudotsugae**, 95, 217; *semipileatus*, 96; *semispinus*, 96; **substipitatus**, 96, 217
Urecolaria, 127
Uredineae in 1910, Cultures of, 7
Uredineae in 1911, Cultures of, 49
Uredineae which attack forest trees, Notes on some western, 141
Uredinopsis, 190, 191; *mirabilis*, 190, 191; *Phegopteridis*, 191; *Osmundae*, 191
Uredo, 194, 195, 197; *Bigelowii*, 147; *Fabae*, 194; *Medusae*, 147; *Oxy-tropi*, 23
Uromyces, 12, 14, 21, 22, 55, 56, 179, 186, 194-197, 199, 201, 203, 204, 223; *Astragali*, 23, 32; *acuminatus*, 29, 33, 201, 202, 204; *caricina*, 22, 199; *cucullatus*, 203; *Eleocharidis*, 12, 203; *graminicola*, 12, 202, 204; *Junci*, 22, 32; *Medicaginis*, 24, 32

56, 64; *Peckianus*, 12, 55, 56, 64, 179, 192, 198, 204; *pedatatus*, 200, 204; *perigynius*, 21, 22, 32, 181, 192, 199, 204; *plumbarius*, 203; *Rhynchosporae*, 203; *Ruelliae*, 203; *Scirpi*, 178, 179, 192; *Spartinae*, 12, 186, 187, 193; *speciosus*, 203; *Sporoboli*, 13; *Solidagini-Caricis*, 22; *uniporus*, 14, 201, 204

Uromyces, Correlation between certain species of *Puccinia* and, 194

Urtica gracilis, 17, 28, 31

Usnea angulata, 138; *ceratina*, 138; *dasypoga*, 139; *florida*, 139; *laevis*, 139; *plicata*, 139

Ustilago esculenta, 104

Uvularia grandiflora, 10, 11

Vaccinium, 146; *canadense*, 186; *pennsylvanicum*, 177, 186, 192

Vaginata, 231, 239; *farinosa*, 3; *vaginata*, 239; *velosa*, 239

Vagnera stellata, 11

Venenarius, 231, 239; *bivolvatus*, 241; *calyptratoides*, 241; *calyptatus*, 241, 242; *mexicanus*, 332; *muscarius*, 240, 243; *oreatus*, 240; *pantherinoides*, 242, 262; *phalloides*, 240; *praegemmatus*, 243, 262; *solitarius*, 240; *umbrinidiscus*, 242, 262

Vernonia, 29; *crinita*, 29, 33; *gigantea*, 57, 65

Verticillium, 104

Viburnum, 318

Viola, 199, 200; *septentrionalis*, 11

Viorna Douglasii, 11

Vitis, 34

Volvaria Bakeri, 332; *cubensis*, 332; *Earlei*, 332; *jamaicensis*, 332

Volvariopsis Bakeri, 332; *cubensis*, 332; *Earlei*, 332; *jamaicensis*, 332

Western Uredineae which attack forest trees, Notes on some, 141

Wound parasite of catalpa, *Polystictus versicolor* as a, 263

Xanthoxylum americanum, 10, 52, 53

Zexmenia, 203

Zizania latifolia, 104